CLAIMS

What is claimed is:

A method of developing an application, the method comprising: 1. 1 identifying pattern types corresponding to requirements for an application to be 2 developed, wherein the pattern types are identified from one or more of process patterns, user 3 4 interface patterns, and generic object patterns; selecting patterns that best match the requirements from a set of available 5 6 patterns; and 7 configuring the selected patterns according to the requirements to produce an application. 8 1 2. The method of claim 1 further comprising: 2 gathering additional application requirements based on a structure associated 3 with the selected patterns; and combining the gathered additional application requirements with the selected 4 5 patterns. 1 3. The method of claim 1 wherein the selected patterns include process patterns 2 corresponding to different levels of a process pattern hierarchy. The method of claim 3 wherein the process pattern hierarchy includes business 1 4. 2 process patterns, work process patterns, and action patterns.

1	5.	The method of claim 1 wherein the generic object patterns include collaboration
2	object patterr	ns, business object patterns, and business role object patterns.
1	6.	The method of claim 1 wherein the user interface patterns include personal
2	support patte	rns, execution framework patterns, and activity patterns.
1	7.	The method of claim 1 wherein selecting patterns that best match the identified
2	requirements from a set of available patterns comprises:	
3		determining that a work process pattern is unavailable to satisfy the
4	requirements; and	
5		constructing a work process using action patterns.
1	8.	The method of claim 1 wherein identifying pattern types is performed by a user
2	selecting fror	n a set of available pattern types;
3		selecting patterns is performed by a user selecting from the set of available
4	patterns of the identified pattern type; and	
5		configuring the selected patterns is performed by a user incorporating the
6	requirements	into the selected patterns.
1	9.	The method of claim 1 further comprising identifying and configuring content
2	patterns that	correspond to the requirements.

1	10. A method of developing an application, the method comprising:
2	providing a library of patterns including at least two different types of patterns,
3	wherein the pattern types are selected from one or more of process patterns, object patterns,
4	user interface patterns, and content patterns;
5	identifying requirements for a desired software application;
6	receiving a user selection of patterns from the library of patterns; and
7	configuring the selected patterns in accordance with the identified requirements
8	to create a software application.
1	11. The method of claim 10 wherein the library of patterns includes process patterns
2	corresponding to a plurality of discrete levels of a process pattern hierarchy.
1	12. The method of claim 11 further comprising constructing a procedure from lower
2	level process patterns when a higher level process pattern that satisfies the identified
3	requirements is unavailable.
1	13. The method of claim 10 further comprising using the selected patterns to
2	identify additional requirements for the software application.
1	14. The method of claim 10 further comprising:
2	identifying work roles to be supported by the software application;
3	identifying a work style and a role content associated with each work role; and

4		selecting and configuring content patterns and user interface patterns that
5	correspond to	the identified work style and role content.
1	15.	The method of claim 14 wherein the library of patterns includes user interface
2	patterns corre	esponding to a plurality of discrete levels of a process pattern hierarchy.
1	16.	The method of claim 10 further comprising:
2		identifying a process to be performed in the software application;
3		selecting at least one process pattern corresponding to the identified process;
4		identifying collaboration needs for the identified process; and
5		selecting collaboration patterns corresponding to the identified collaboration
6	needs.	
1	17.	The method of claim 16 further comprising:
2		identifying work roles associated with the identified process; and
3		selecting content patterns and user interface patterns that correspond to the
4	identified wo	rk roles.

18. A method of developing an application, the method comprising: 1 2 providing a set of available patterns at different discrete levels of a process hierarchy, wherein the patterns include business process patterns, work process patterns, and 3 4 business action patterns; identifying requirements for a business process; 5 mapping the identified requirements to patterns from the available patterns by 6 mapping process-related requirements to a corresponding business process pattern, wherein 7 process-related requirements for which a business pattern is unavailable are mapped to a 8 9 corresponding work process pattern, and process-related requirements for which a work 10 process pattern is unavailable are mapped to a corresponding business action pattern. 19. 1 The method of claim 18 further comprising: identifying collaboration needs and job roles that correspond to a work process 2 3 pattern to which the identified requirements are mapped; and mapping requirements to patterns relating to collaboration functions and job role 4 5 functions. 1 20. The method of claim 18 wherein the business process patterns represent an application scenario, the work process patterns represent guided procedure templates, and the 2 3 business action patterns represent guided procedure steps. 1 21. The method of claim 18 further comprising:

2		identifying a job role associated with a process pattern,
3		segmenting the job role into work roles; and
4		mapping the work roles to content patterns and user interface patterns.
1	22.	The method of claim 21 wherein the content patterns and user interface patterns
2	are selected a	ccording to a work style associated with the work role and a role content for the
3	work role.	
1	23.	The method of claim 22 further comprising:
2		identifying work scenarios associated with the work role; and
3		mapping the work scenarios to execution framework and activity user interface
4	patterns.	
1	24.	The method of claim 18 wherein the set of available patterns are provided in a
2	pattern library;	
3		identifying requirements is performed by one or more users; and
4		mapping the identified requirements to patterns is performed by one or more
5	users incorpo	rating the identified requirements into the patterns based on structures associated
6	with the patte	erns.

1	25. An article comprising a machine-readable medium storing definitions of patterns for		
2	use in constructing an application, the patterns comprising:		
3	business action patterns that define guided procedure steps;		
4	work process patterns that define guided procedure templates, wherein each		
5	work process pattern comprises a plurality of business action patterns;		
6	business process patterns that define a generic application scenario, wherein		
7	each business process pattern comprises a plurality of work process patterns; and		
8	wherein the patterns are accessible for use in constructing an application by		
9	configuring the patterns according to identified requirements for the application.		
1	26. The article of claim 25 wherein the patterns further comprise business object		
2	patterns, user interface patterns, and content patterns that are accessible for use in constructing		
3	the application by configuring selected business object patterns, user interface patterns, and		
4	content patterns according to identified requirements for the application.		
1	27. The article of claim 25 wherein the patterns further comprise collaborative		
2	content patterns for defining generic collaborative structures and the collaborative content		
3	patterns are accessible for use in constructing the application by configuring the collaborative		
4	content patterns according to identified requirements for the application.		
1	28. The article of claim 25 wherein the patterns further comprise user-centric		
2	patterns comprising:		

3 work style content patterns for defining generic work style contents that relate to 4 factors that drive different users' work; role content patterns for defining generic roles that can be assigned to different 5 6 users; and 7 wherein the work style content patterns and the role content patterns are 8 accessible for use in constructing the application by configuring the patterns according to 9 identified requirements for the application. The article of claim 25 wherein the patterns further comprise user-centric 1 29. 2 patterns comprising patterns relating to work scenarios for roles that can be assigned to 3 different users, wherein the work scenario patterns are accessible for use in constructing an application by configuring the patterns according to identified requirements for the application. 4

1	30.	A method of developing an application, the method comprising:
2		identifying a job role within an enterprise;
3		segmenting the job role into work roles associated with the job role;
4		mapping each work role to at least one of a work style content pattern and a role
5	content pattern	n;
6		identifying work scenarios associated with each work role; and
7		mapping each work scenario to at least one work scenario user interface pattern.
1	31.	The method of claim 30 further comprising configuring at least one personal
2	resource page	, based on the work style content pattern, in accordance with a personal support
3	user interface	pattern.
1	32.	The method of claim 30 wherein the at least one work scenario user interface
2	pattern compr	ises at least one execution framework pattern and at least one activity pattern.
1	33.	The method of claim 30 further comprising:
2		identifying a work process associated with a work scenario; and
3		mapping each work scenario to a work process pattern corresponding to the
4	identified wor	k process.

1	34.	A method of developing an application, the method comprising:
2		identifying a set of requirements for a business process application;
3		mapping the identified requirements to a work process pattern that represents a
4	guided proced	ure template for a work process;
5		identifying a plurality of job roles associated with the work process pattern;
6		segmenting each job role into work roles; and
7		mapping the work role to a set of patterns comprising one or both of a content
8	pattern and a i	user interface pattern.
1	35.	The method of claim 34 further comprising:
2		identifying collaboration needs associated with the work process based on the
3	identified requirements;	
4		selecting a collaborative content pattern corresponding to the identified
5	collaboration needs; and	
6		mapping the collaboration needs to the selected collaborative content pattern.

1	36.	A method of developing an application, the method comprising:
2		segmenting a job role in an enterprise into work roles;
3		configuring a plurality of personal support user interface patterns in accordance
4	with work styl	es associated with the identified work roles to produce personal support pages,
5	wherein each p	personal support user interface pattern corresponds to a work style;
6		identifying a plurality of work scenarios associated with the work roles;
7		mapping each work scenario to at least one user interface pattern relating to an
8	execution mod	e to produce an execution framework page, wherein each personal support page
9	contains links	to the execution framework pages.
1	37.	The method of claim 36 further comprising:
2		identifying work activities associated with each work scenario; and
3		mapping each work activity to a corresponding activity pattern to create activity
4	pages, whereir	each execution framework page contains links to selected activity pages and the
5	activity pages	relate to specific activities within the execution framework.